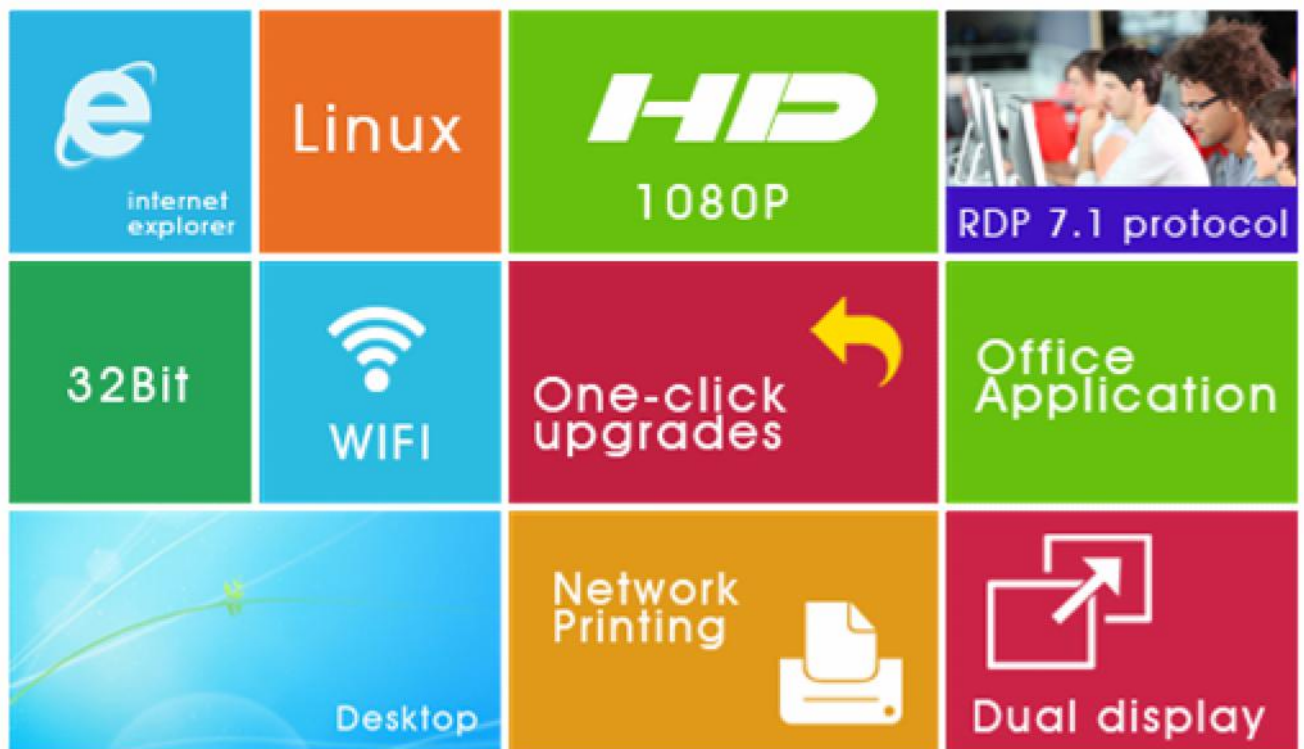




NL600

## —————User Manual



## 【Notice】

Thank you for purchasing Black Box.

In order to easily use this device, please read the manual before using.

The product version may upgrade in ceaseless, this document is used only as a guide. All of representations, informations and advices within this document, does not constitute any express or implied warranty. If there is any information of this user manual are subject to change without notice, and don't take any responsibility that manual errors generated or omissions caused.

## 【Precautions】

- In order to assure the safety, please select the power adapter appointed or provided by our factory
- In the boot state, please do not directly pulled out power adapter in order to avoid suddenly power off caused damage.
- Please do not move the device when it is running.
- Keep far away from high temperature or low temperature environment, try to keep moisture proof and ventilated working environment.
- Please do not hurl, knock or shake the device, the non-professional workers do not unpack the device without any guides. improper operating will cause damage for device.
- Do not clean the device with harsh chemical or corrosive cleaner.

# Catalogue

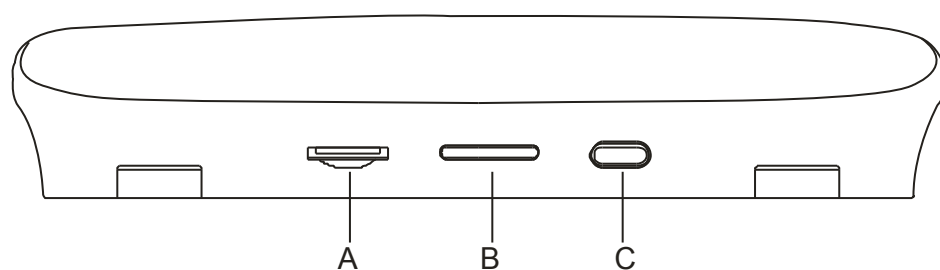
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# 1

## Component

---

### Front Panel

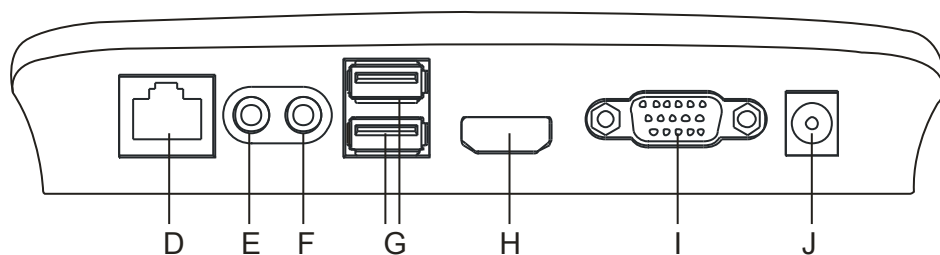


A : TF card port

B : Nonopaque Bar

C : On/Off button

### Back Panel



D : RJ45Lan port

E : Audio Output SPK Port

F : Audio Input MIC Port

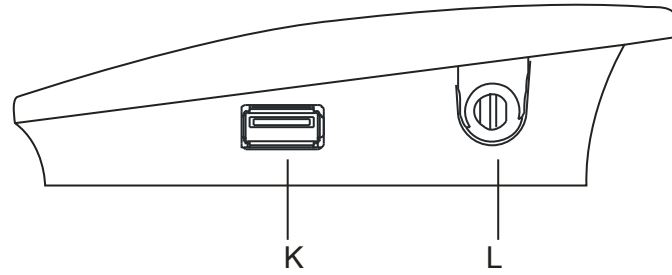
G : USB Port 1; USB Port 2

H: : HDMI Port

I : VGA Port

J : 5V/2A Power Port

### Side Panel



K: USB Port 3

L : WIFI port

## **2**

# **Connection**

---

### **2.1 Connect with Monitor**

Pls connect LCD singal wire with VGA port of cloud computer.

Pls connect HDMI singal wire with HDMI port of cloud computer if HD display is requested,such as HDTV.Cloud computer NL600 can support dual-screen display.



HDMI



VGA

## 2.2 Connect with Lan Cable

Pls connect lan cable (10 ~ 100M ) with lan port of cloud computer, and connect opposite end with switch or router.

## 2.3 Connect with mouse & keyboard

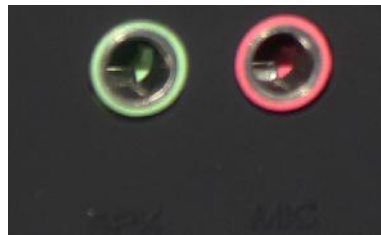
Connect mouse & keyboard with cloud computer by USB 2.0 port.



## 2.4 Connect with Mic & Speaker

1. Connect Earphone with SPK port
2. Connect Mic with MIC port

**Note:** Earphone port is in green color, and Mic port is in red color.



## 2.5 Connect with Power

- 1) Plug power adapter in, the power indicator light will be green color.





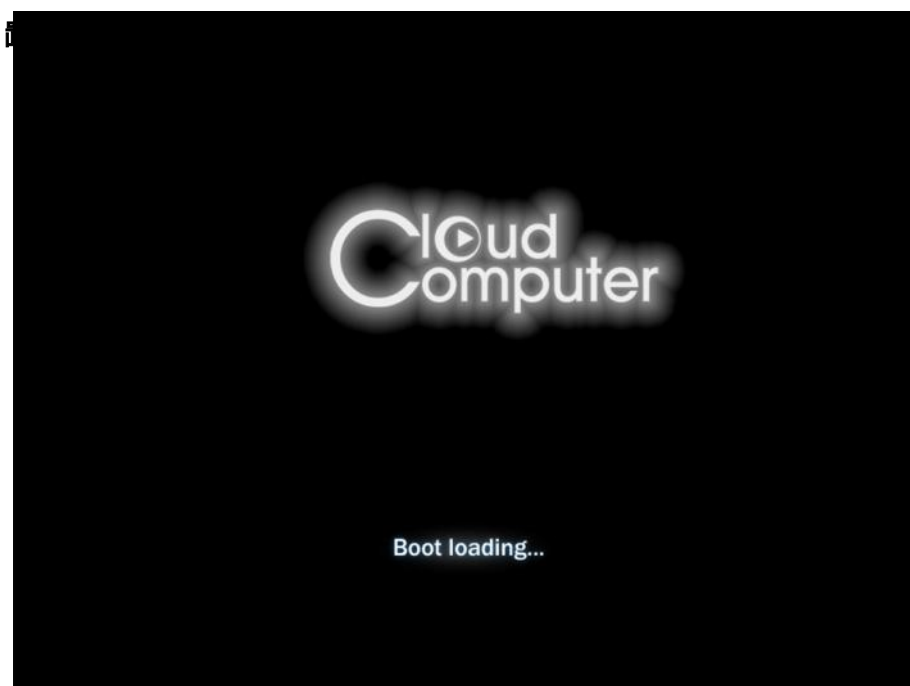
## 3. Operating Instruction

---

Cloud Computer NL600 is built-in RDP7.1 protocol,it supports 32 bit color and 1080P full screen hd video (local display). NL600 is compatible with 99% of Windows platform application,brings users a rich windows experience.


### 3.1 Remote connection Settings

Plug power adapter in, the device enter boots interface.

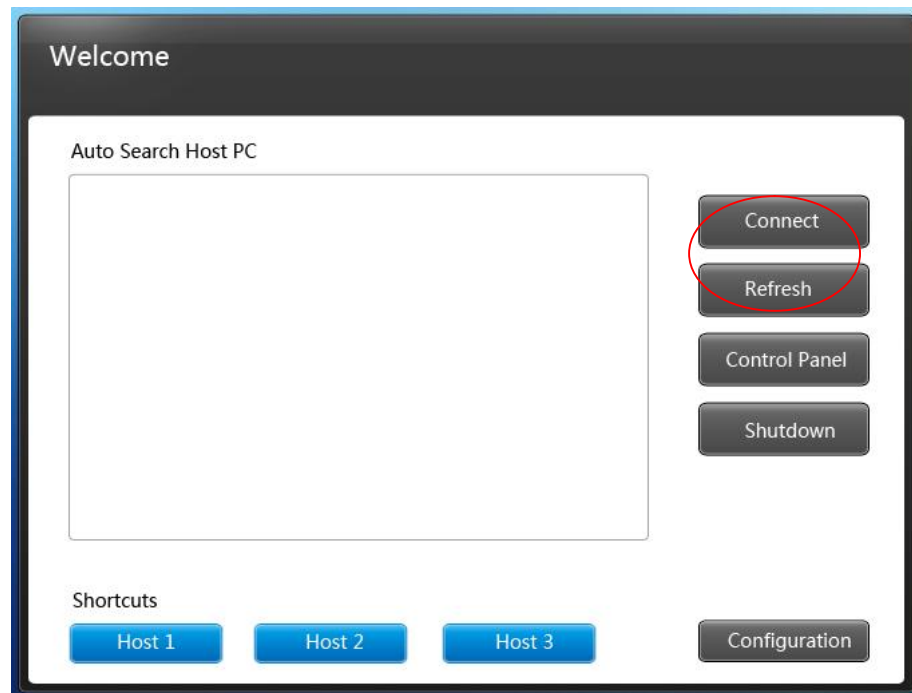


**Note:** Pls set the resolution in control panel before remote connection,and choose the network settings according to actual network condition.Other functions setup according to personal requirements.

#### 3.1.1 Find A Host

It will automatically search all HOST which has installed Shineplayer , (Pls note that shineplayer was developed by our company must installed in the server first.)then choose the host record by double-clicking or clicking "connect" in the right side,to enter into the login interface.With user name,password,domain and port info,then enter the remote system.

**Note:** It may show the host that are not eligible due to network delay,pls click "refresh" in the right side or reboot the device.



### 3.1.2 Configuration & Shortcut



To set the related shortcut of HOST login.

**Configuration** : For example,HOST 1,once user input and save IP address,Host name,Password,Port & Domain info under Configuration,it can access to the HOST 1 by the shortcut with info above.

**Auto** : It will automatically enter into the HOST you choose after rebooting.

If user want to cancel or revise this AUTO function,pls disconnect remote system then enter the “configuration” for settings.

**Note:** It needn't to input domain if there is not domain in the server.

Port Info is 3389 by default. User can input the new number only when port info is revised in the server, or it is no need.

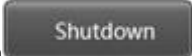
Shortcut configuration

Auto	IP address	User Name	Password	Port Number	Domain
<input checked="" type="radio"/> Host 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="3389"/>	<input type="text"/>
<input type="radio"/> Host 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="3389"/>	<input type="text"/>
<input type="radio"/> Host 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="3389"/>	<input type="text"/>

Save

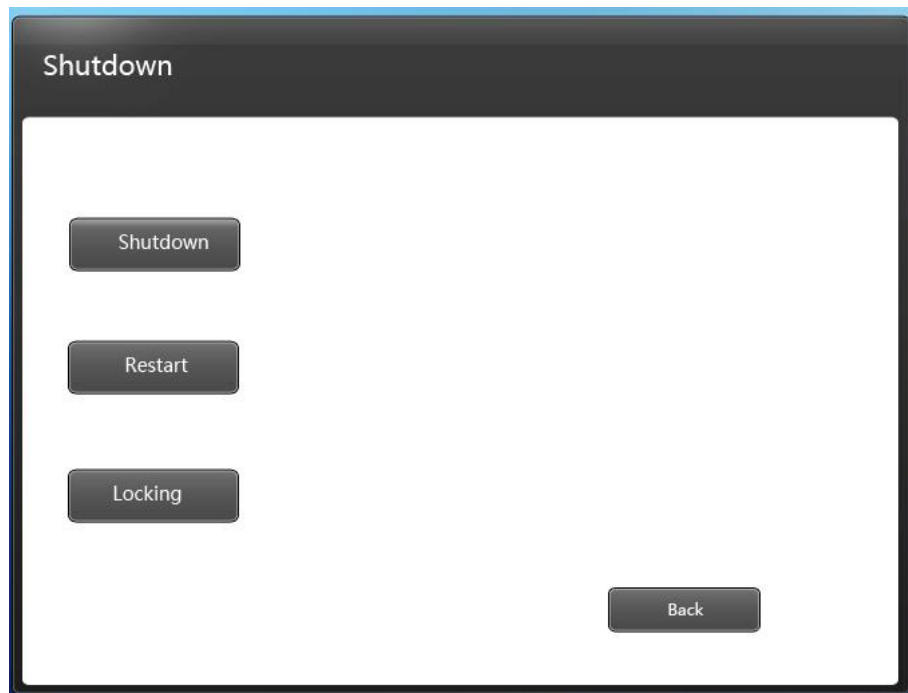
Back

### 3.1.3 Shutdown and Local IP

Shutdown  click this button, device will shutdown, restart and locked.

After clicking this button , the indicating light will turn red ,the device goes into electricity-saving state. To wake up the device , you only need to push the standby or restart key .

When you click the “Lock” key ,the interface will stay in a locked state ,the “Lock” icon shifts into “Unlock ” ,click it one more time will unlock the interface .



**Local IP** : When linked to network, it will show the IP address of the device.

### 3.2 Control Panel

Control Panel

**Password of control panel** : the default password is empty, needn't to input

**There are eight settings in total** :Network display and Sound ,Peripheral and Start

Date and Time ,Password, Upgrade and Restore, Language Selection, System information.





### 3.2.1 Network

This function is mainly used to set the network of the device ,when using static state , such as the subnet mask ,route , DNS must in accord with current network.

**Network test : Manually used to test if the device and target host computer are connected .**

Input IP address of target host computer into :Destination” ,test number of times into “Number of times “ ,then click “Test” , test result page will display information of network test ,MAC address of the Device will be displayed at the left bottom.

If the test page don't have rection or slow in reacting , please check if the network cable has been plugged well , columns of “Destination ” and “ Number of times ”have been input completely and if the target host computer is in starting state .



### 3.2.2 Display and sound

**Set up functions of display and sound after connected with Remote Desktop .**

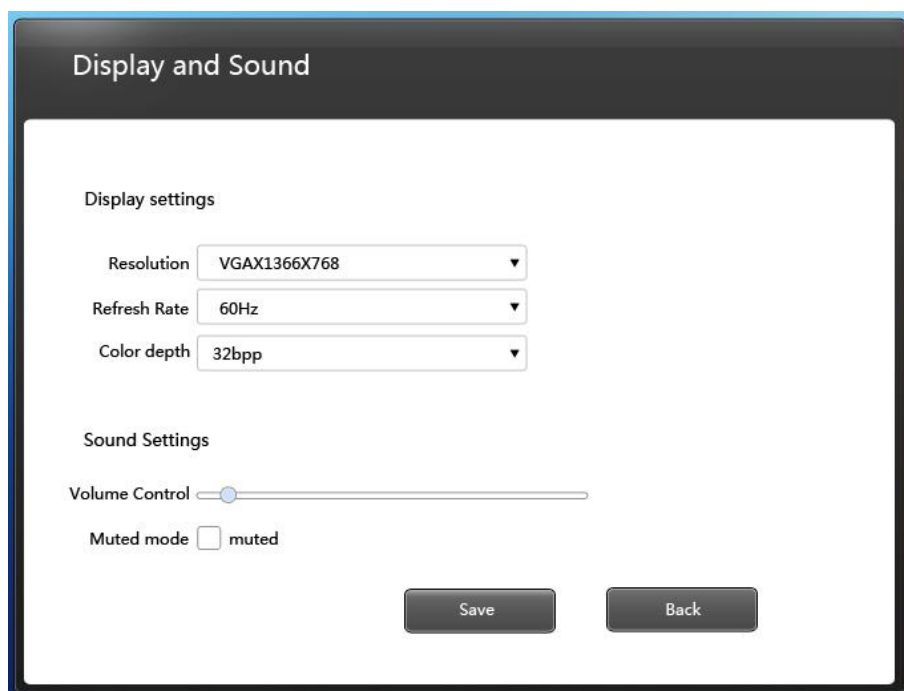
**Resolution :** choose resolution according to the size of monitor , using mouse to click the icon of inverted triangle behind “ Resolution” button , then optional list of resolution will be opened , click “ Save “ after selection , the system will restart itself automatically to load the new resolution .

**Refresh rate :** default 60 HZ

**Color depth:** there are 16 bit and 32 bit to choose from the color display list after connected with the Remote Desktop

**Souns volume :** dragging the slider to adjust volume when connected with Remote Desktop

**Sound off :** choose it to turn on or off the “ sound off ” state when connected with Remote Desktop .



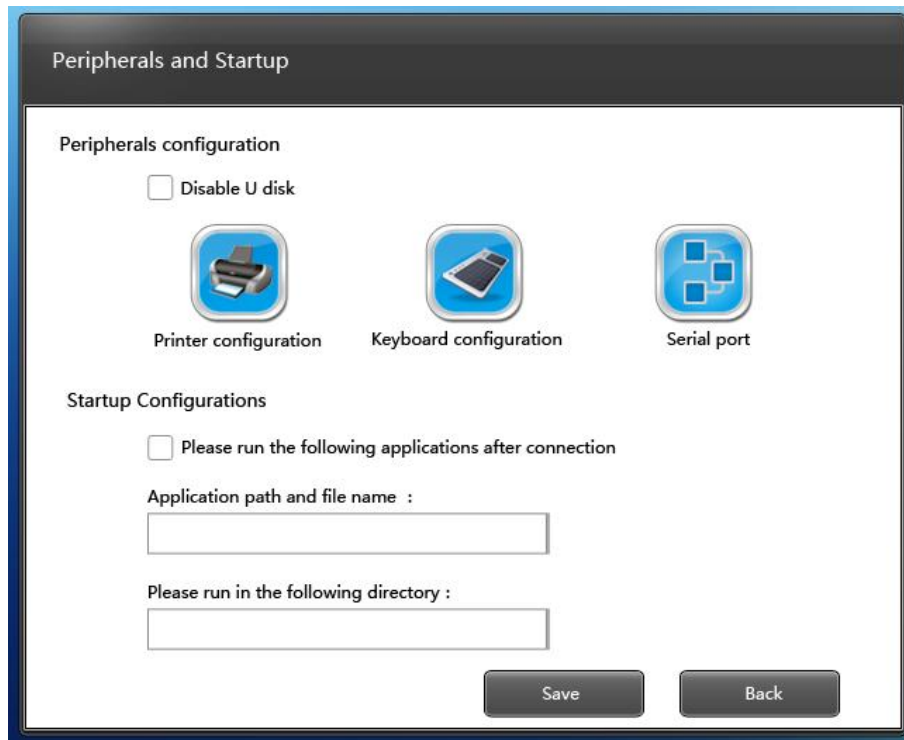
### 3.2.3 Peripheral and start

Select access equipments used in “Remote” mode

**Forbid U-disk :**The U-dish can’t use on remote mode after choosing this icon.

If you want to use U disk in “ Remote ” mode , cancel the selection, then function of U disk will be opened .The default for this function is on state

**Do not support :** printer, keyboard ,serial, set up of startup temporarily .



### 3.2.4 Date and time

Used to check date and time in Control Panel .

Click the left or right green icon in date column ,use the cursor to click “month” or choose from the drop-down list to set month .

Use cursor to choose year ,you can fast input the year you need directly or click the up or down black triangle arrow to adjust year .

Choose time : use the cursor to choose “hour” , “minute” , “second” , input the time you need directly or use the up or down arrow to set it .Click the “Save” icon below to save the settings of date and time you have set .


## Time and Date

Set Time and date

Date :

November ,2012							
	SUN	MON	TUE	WED	THU	FRI	SAT
1					1	2	3
2	4	5	6	7	8	9	10
3	11	12	13	14	15	16	17
4	18	19	20	21	22	23	24
5	25	26	27	28	29	30	
6							

Time :



13:37:19

Save
Back



Password Setting

### 3.2.5 Password

System default password is empty

Change password : after changing password , exit Control Panel and enter again ,you need to input the new password

Create password : when you change the password to empty , you can create a new password in this column.

## Password Setting

Create a password

New password

Re-enter Password

Change Password

Old Password

New Password

Re-enter Password

Save
Back





### 3.2.6 Upgrade and restore

This function is used to do the upgrade and restore to default of the device



**Local upgrade** : Copy upgrade bag to U disk or SD card , then click local upgrade , the device will be upgraded to new version .

Attention: Please wait patiently during the upgrading process , please do not move the device, do not draw out U disk , do not cut off electricity .

Restore to default

This function will restore the device to factory state, please use it cautiously .It will clear off all the settings .

Saving settings : this option is used to save related settings set in current control panel .

The settings will be save as a file , when you need to use them next time ,just load them .

Loading settings: execute loading process to settings saved by users , use the cursor to choose saved rdp suffix files , double click it will load and reproduce saved settings of last time , choose “ delete file point ” can delete this setting file .

If the current resolution and that of saved settings are the same , the system will not restart during loading process ,if not ,the system will restart itself and then the resolution take effect .

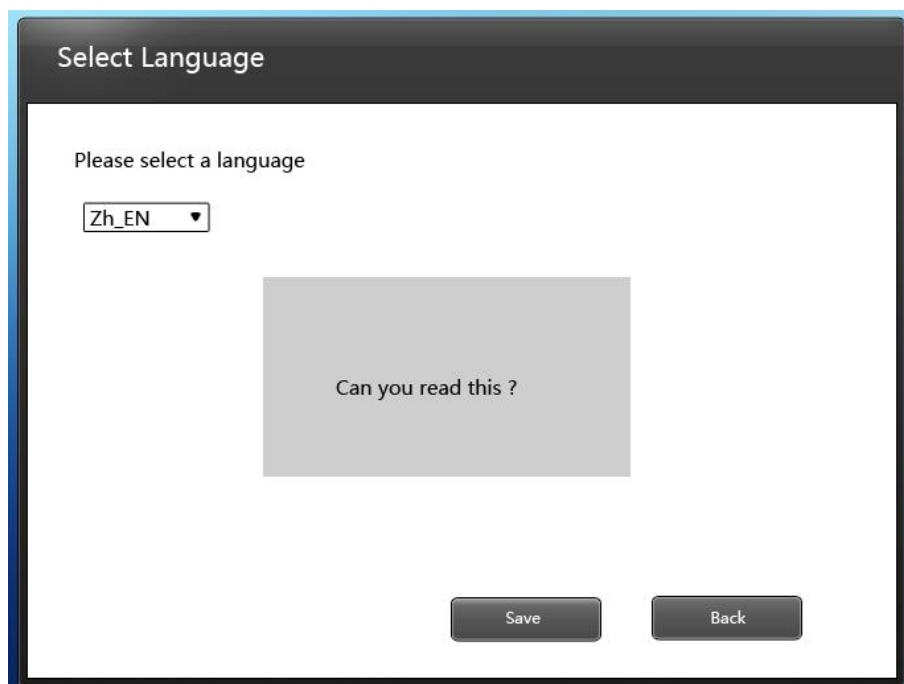


Language Selection

### 3.2.7 Language option

Select language displayed in Control Panel , Support Multi-Language version as below: Chinese, English, French ,Japanese, Thai ,Portuguese

Choose one language then click “Save” to save the current selection , click “Return” to cancel selection .



### 3.2.8 Information of software and hardware



Information

## 3.3 Video play

### 3.3.1 Setup of player

Put the setup.exe and ShinePlayer.msi of the disk under the catalogue of server host machine. Double click setup.exe file , install playing plug-in units of server port .

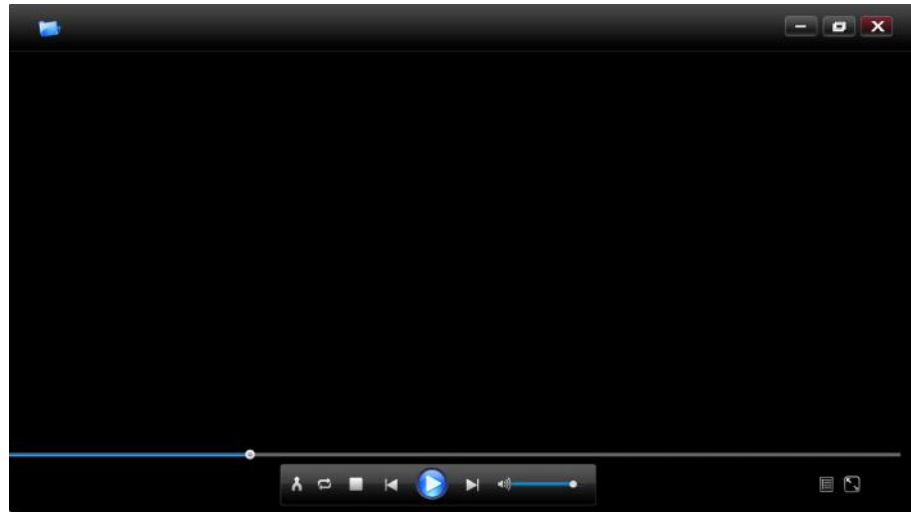
After the installation ,restart the host machine .

### 3.1.2 Usage of player



1) Choose the player icon and double click it to open it in the remote desktop ,then add some files to play.

2) Choose a video file, click the right button of mouse and select “Using Shine Player to open it” in menu list to use the player.



### 3.3.3 Button Feature



Open single file



Minimize player interface



Exit player interface



Play Video file at random



Play Video file circularly



Stop play video



Playing status, click once is for the suspended state



Short Press will switch to next or previous file, long press will fast forward or fast backward



Click will switch to muted state



Volume bar, drag the slider to adjust the video volume

Note: Please adjust video volume on display menu panel when plug HDMI cable.



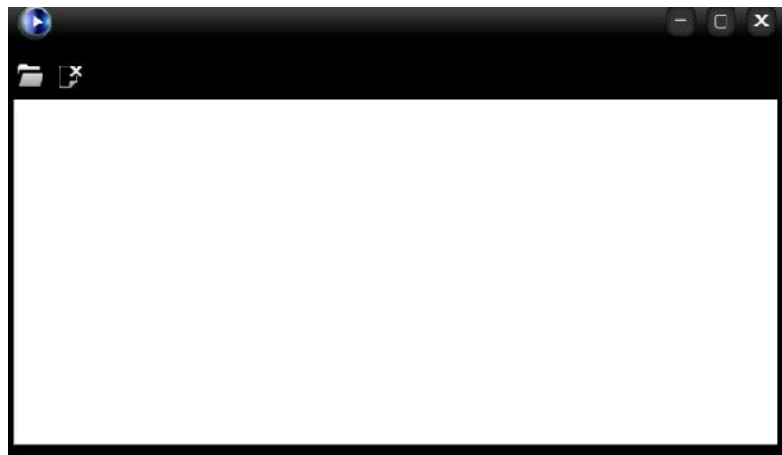
Video progress bar, drag the slider directly to adjust fast forward and fast backward.




The former is for present video playing time, and the latter is for Video total duration.



Click enter into the list of the files, that is the interface as below,




You can add multiple files on the list interface , below the green font bar that displays the number of the add files.



Select one file and click  then will delete the listed file records ,such as shown below is the interface for one deleted file from the list .



Double-Click the selected file can be played. ,click  will exit from the list ,back to play interface.

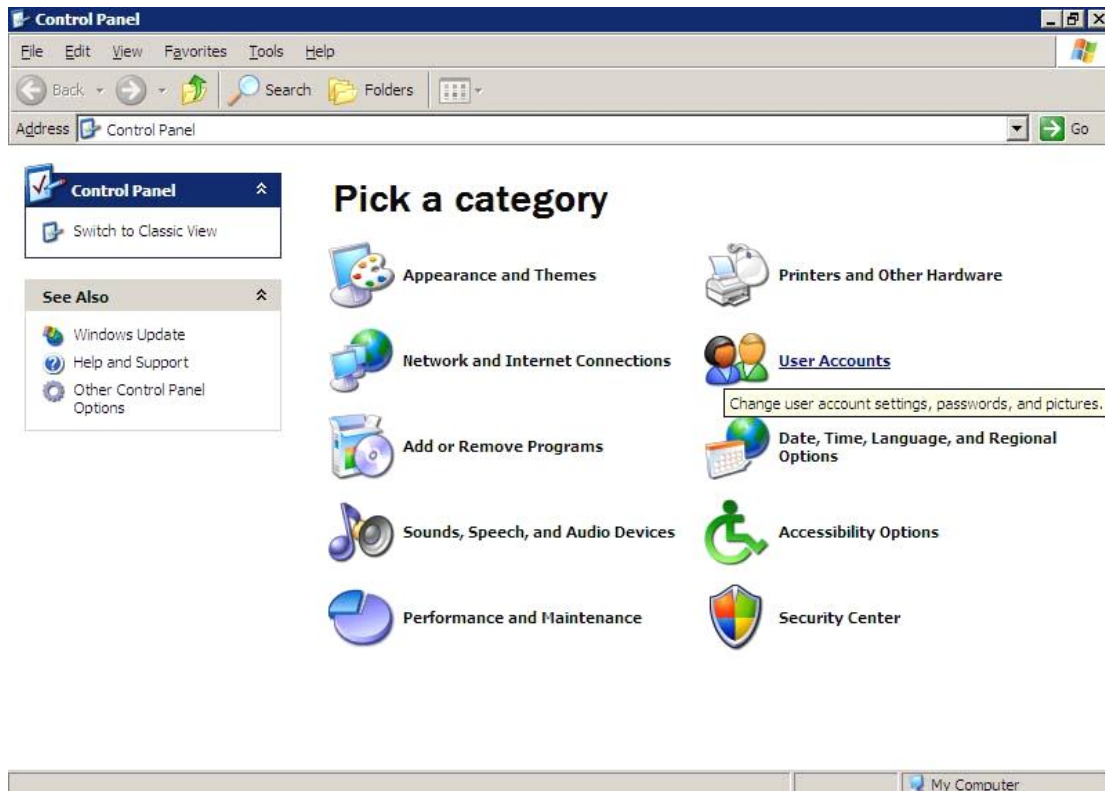
## 4 Configure Sever

---

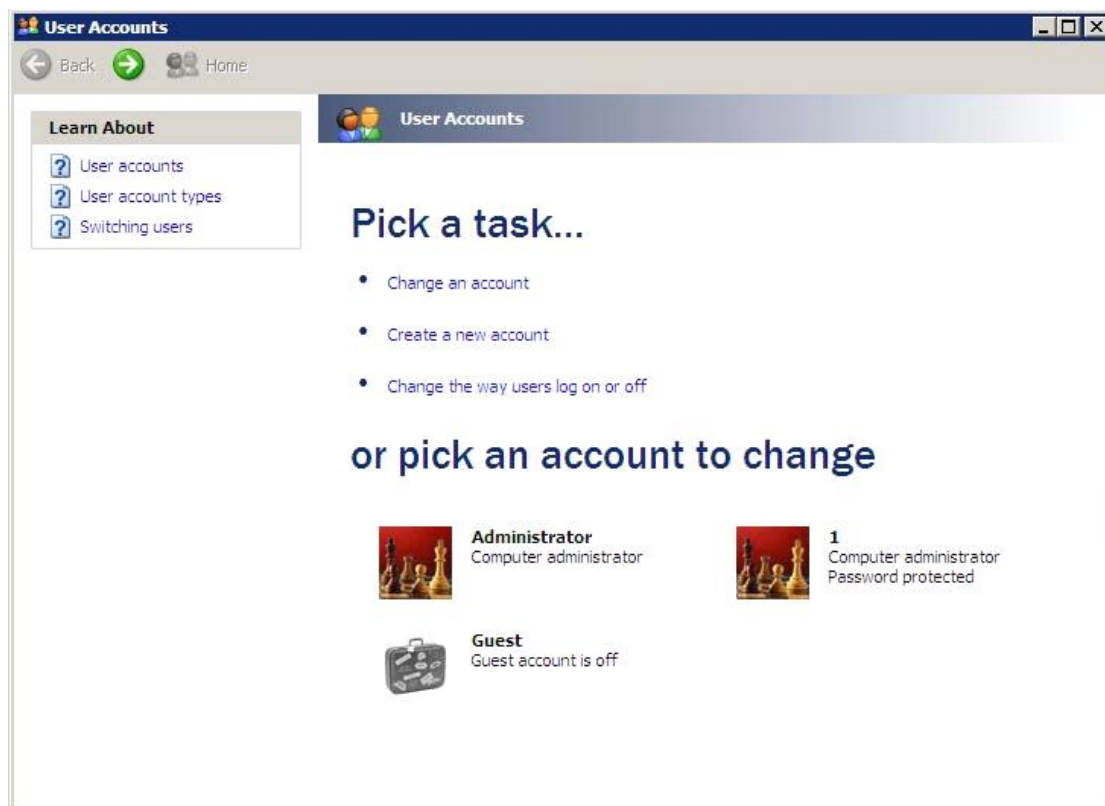
### 4.1 Configure with windows

#### 4.1.1 create new account

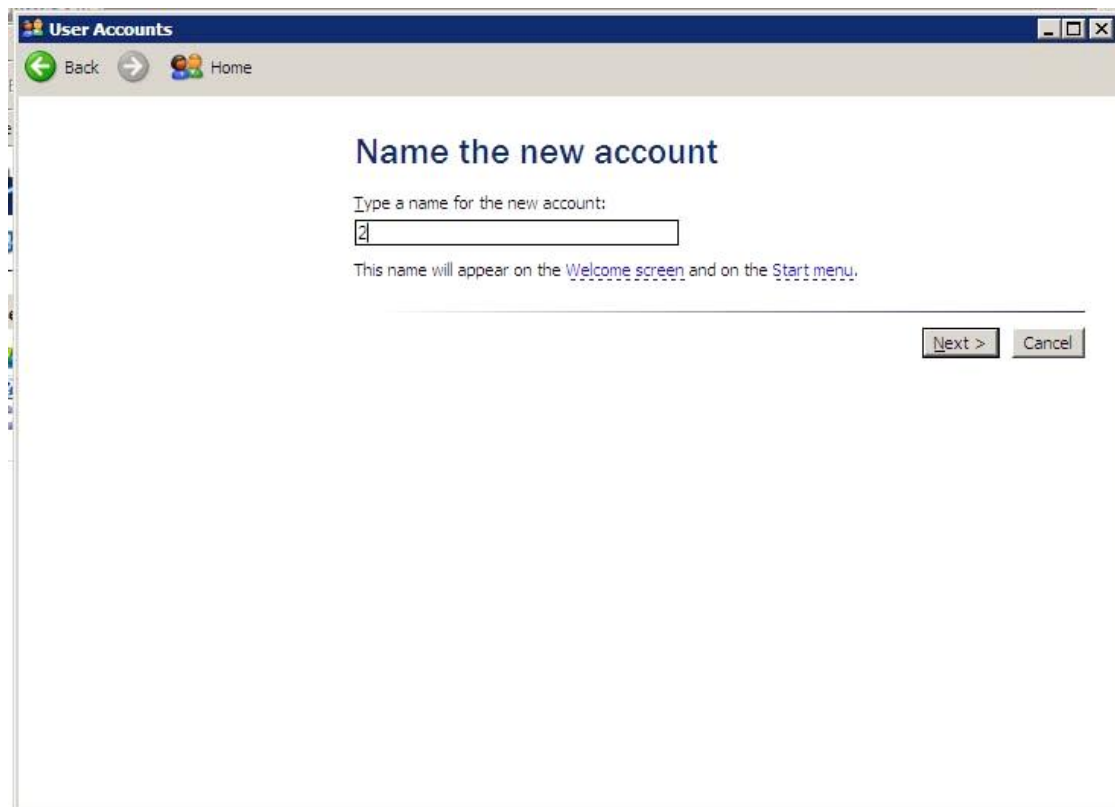
- 1.open control panel ,open User Accounts



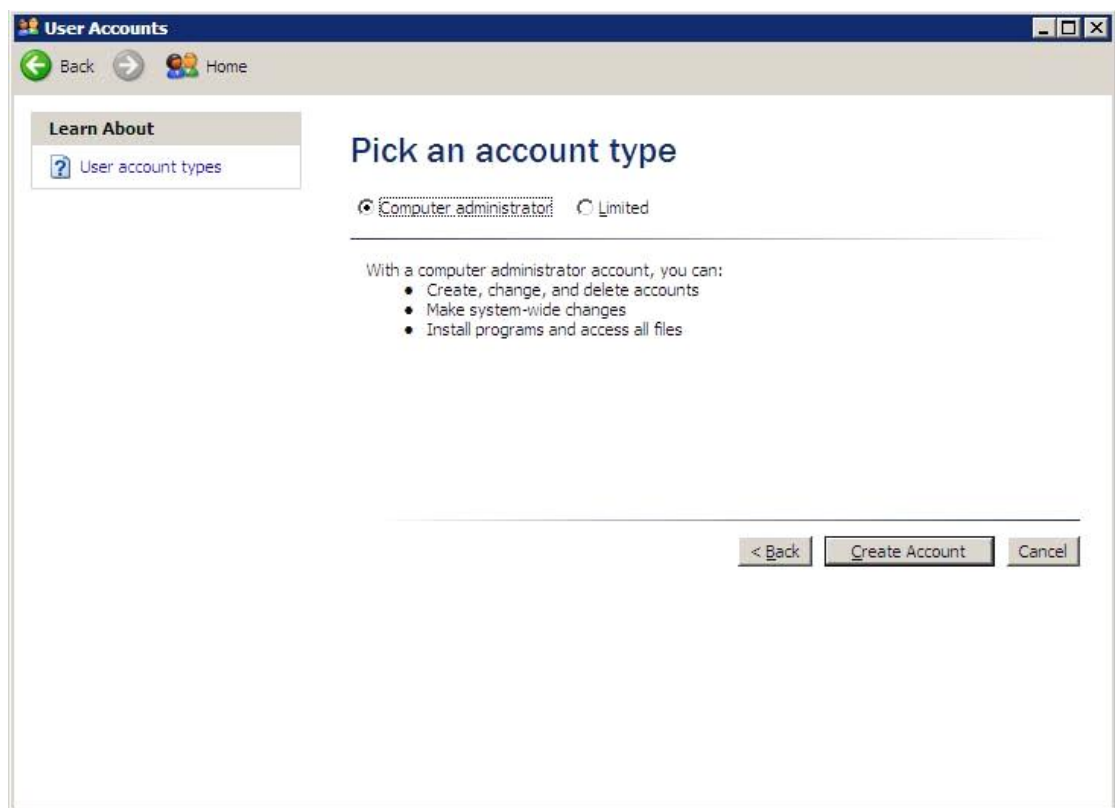
2. open create a new account



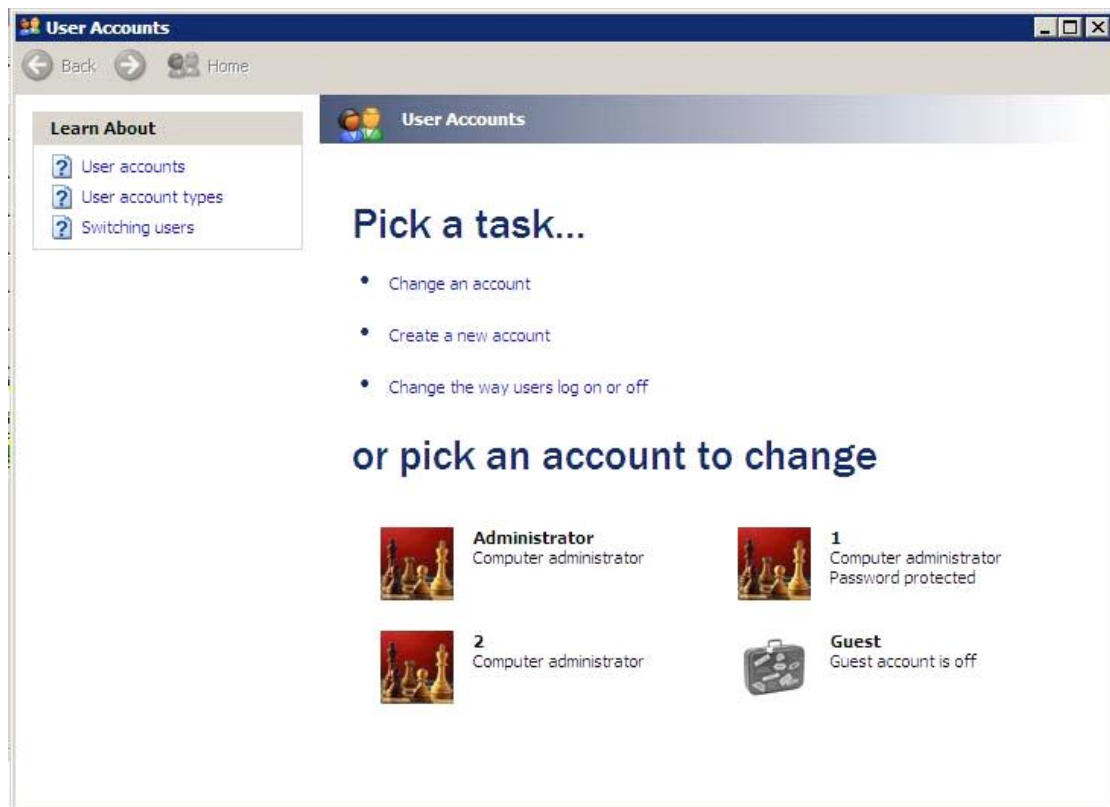
3 . New account name,"next"



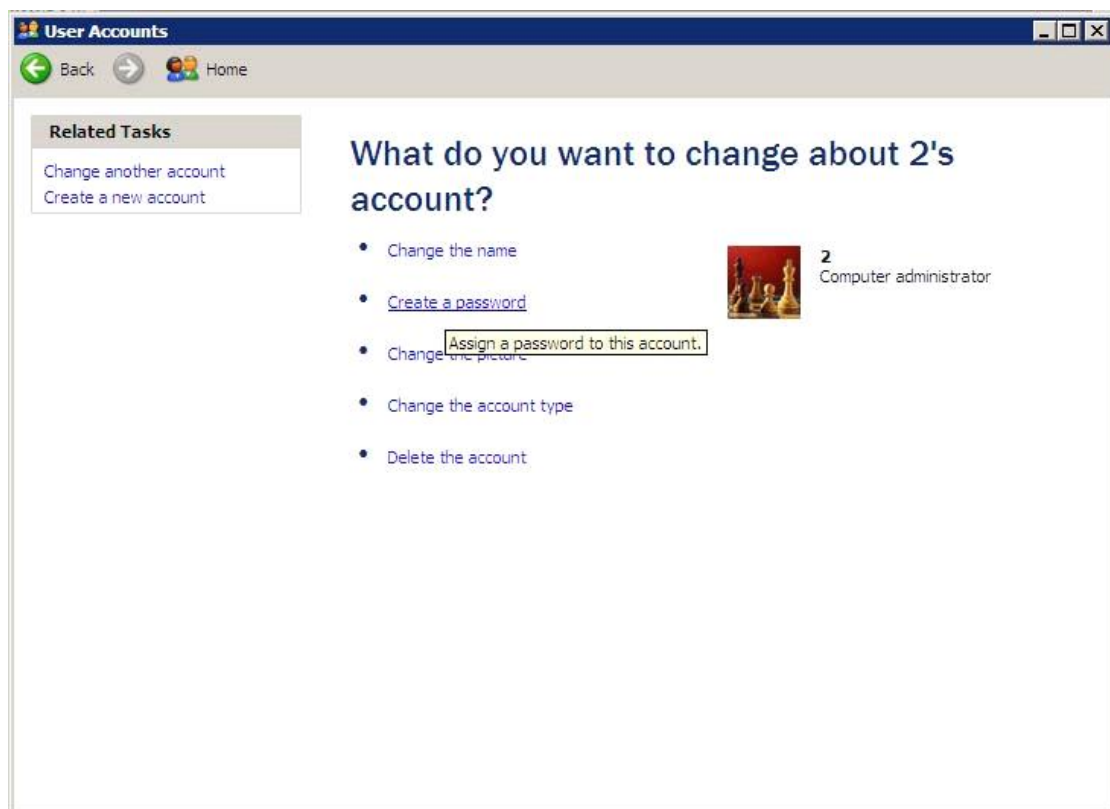
4. pick an account type ( XP is "Computer administrator" ) "Create Account"



5. Creating password



6 . “create a password”



7.user password , “Create Password”



User Accounts

Back Home

**Learn About**

- Creating a secure password
- Creating a good password hint
- Remembering a password

## Create a password for 2's account

You are creating a password for 2. **If you do this, 2 will lose all EFS-encrypted files, personal certificates, and stored passwords for Web sites or network resources.**

To avoid losing data in the future, ask 2 to make a password reset floppy disk.

Type a new password:

Type the new password again to confirm:

If the password contains capital letters, they must be typed the same way every time.

Type a word or phrase to use as a password hint:

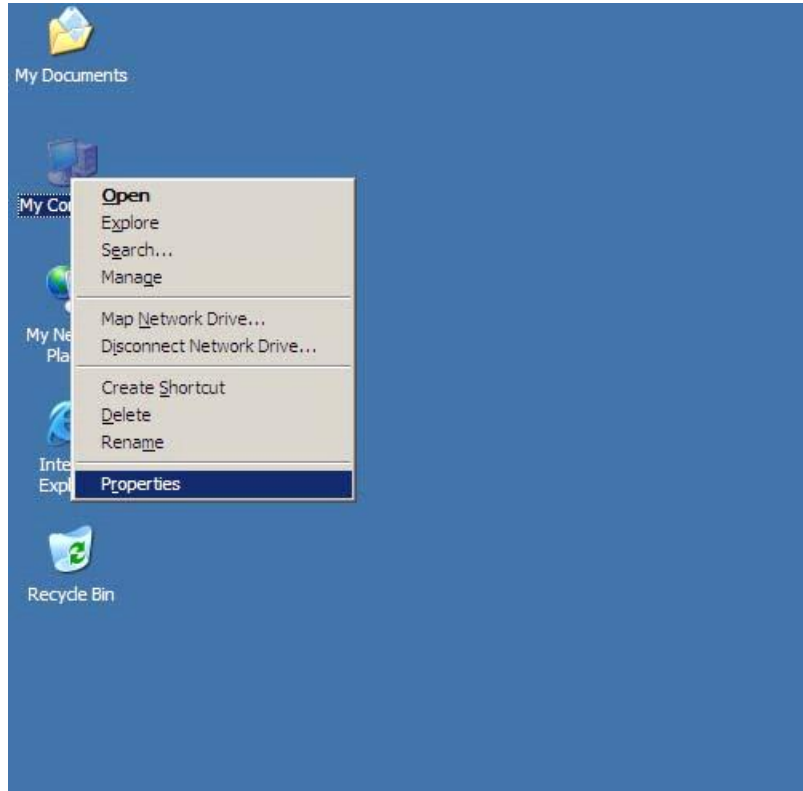
The password hint will be visible to everyone who uses this computer.

Create Password Cancel

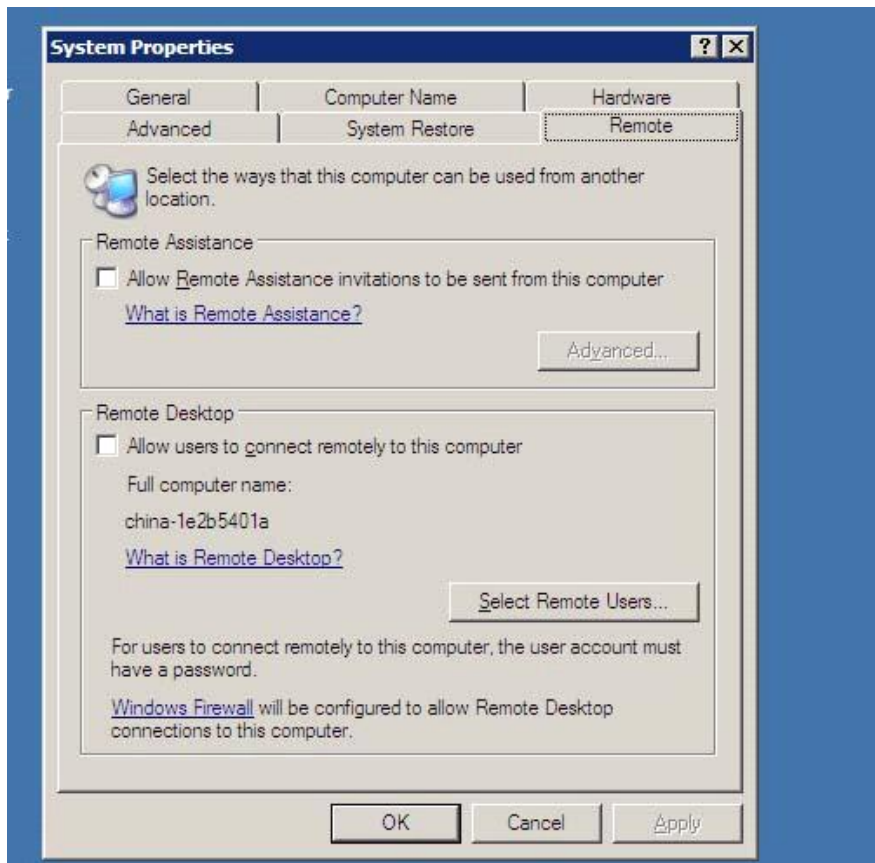
8. create other new account

2 . 1setting Remote desktop user

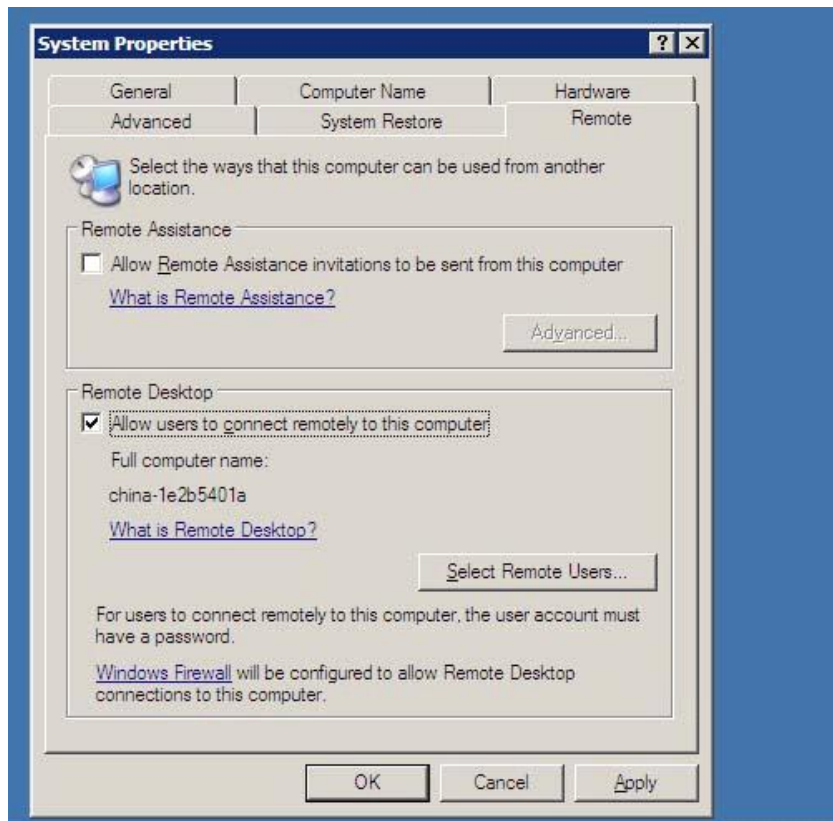
1 . My computer , "Properties"

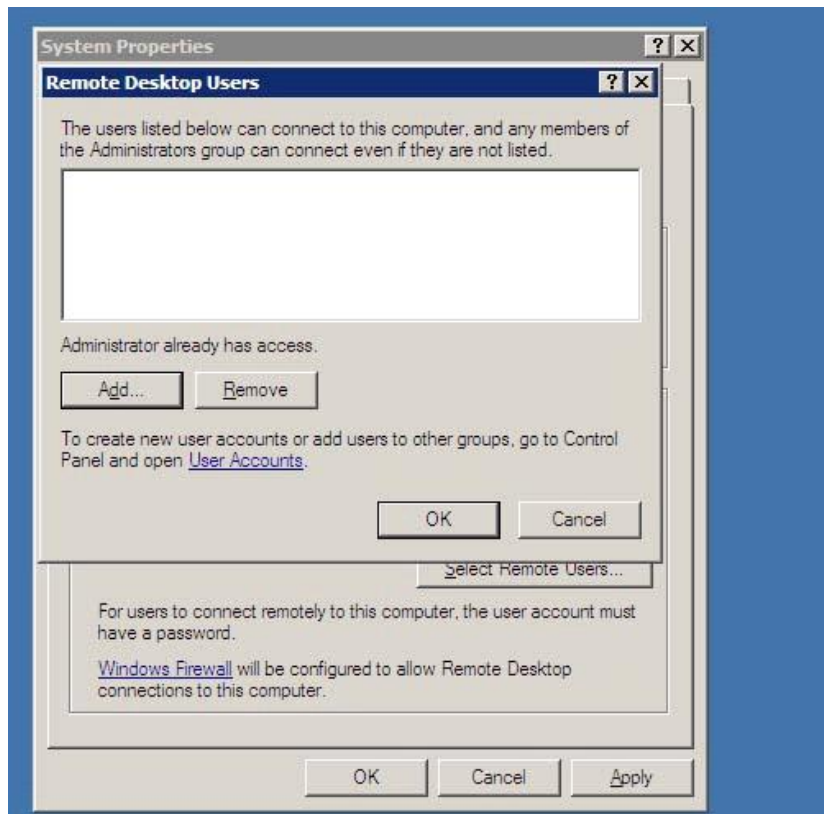


2."Remote" , "allow users to connect remotely to thin computer"。

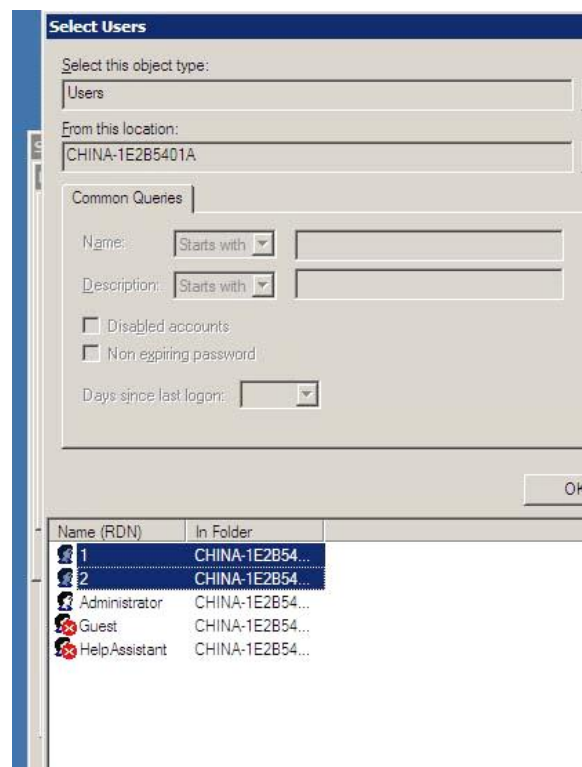


3."Select Remote Users..."

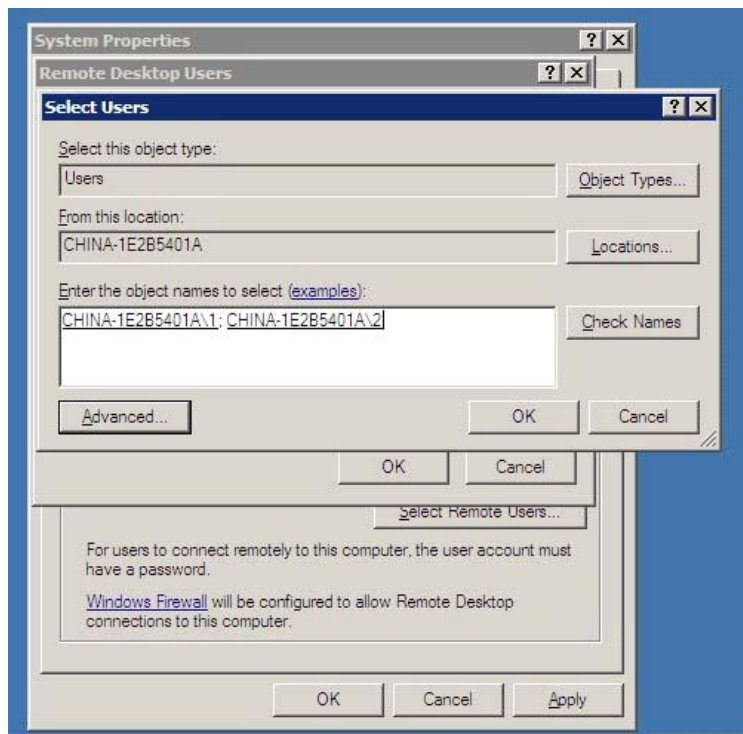




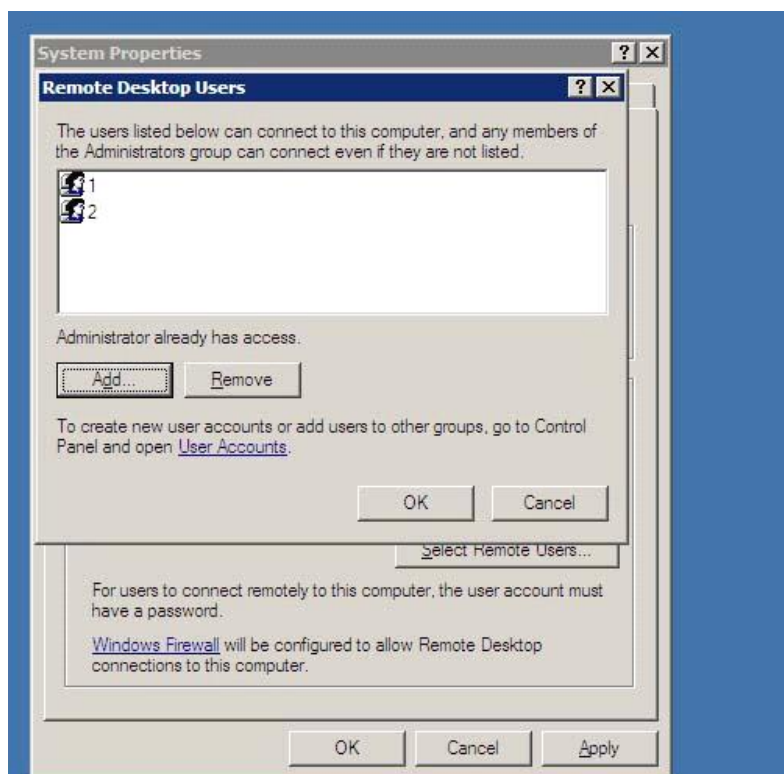
5. "find Now" user name , "OK"



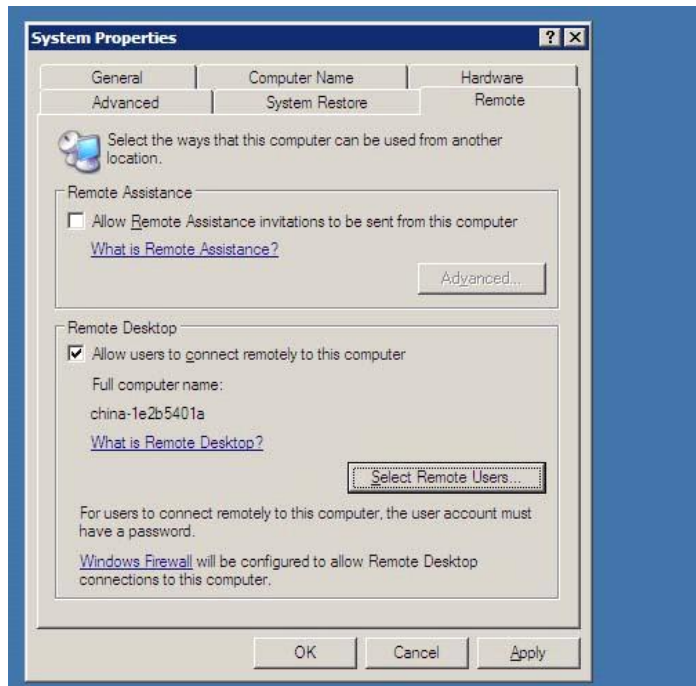
6 . "OK"



7 . "OK"



8 . "OK"



3 . 1setup system

1 . OPEN autorun.exe



2."Run"





3 . Open system ( XP-SP2-SP3 ) "register Componts"

Welcome to

# Thin Client



ver: 1.0

XP-SP2-SP3

2003 SP1-SP2

2008 SP1-SP2

Windows 7

Vista

Exit

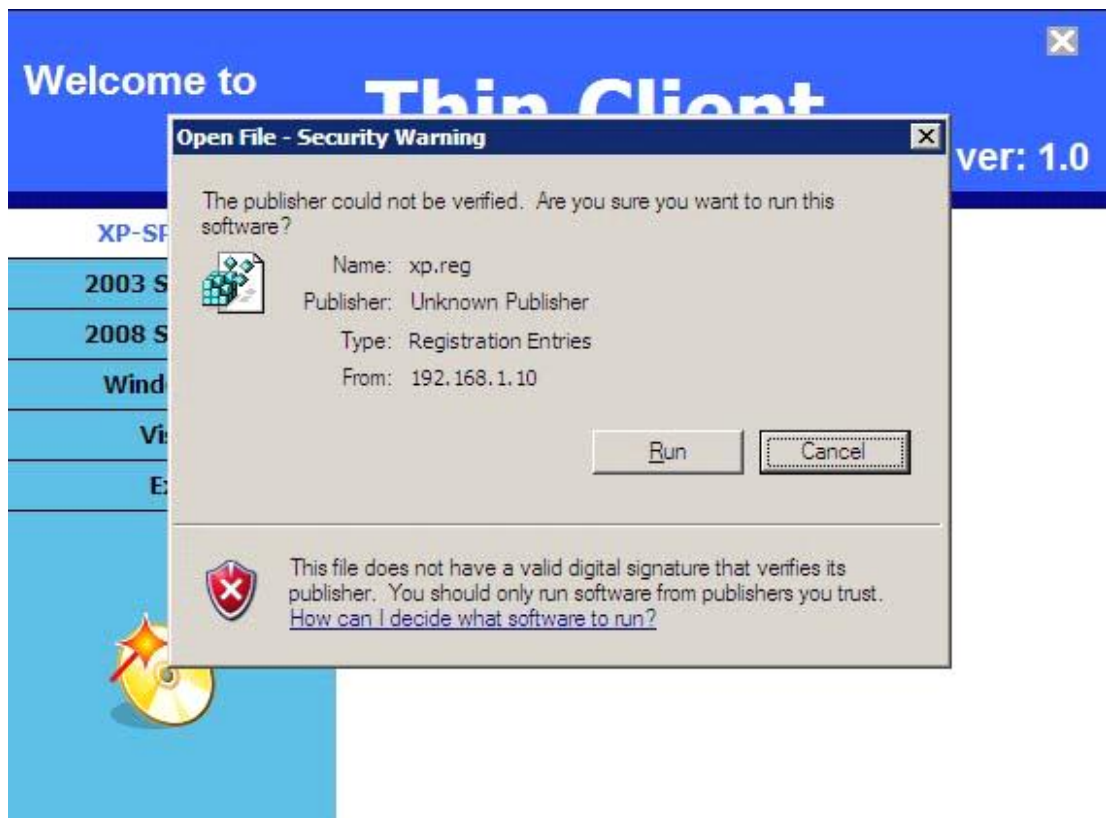


Register Componts

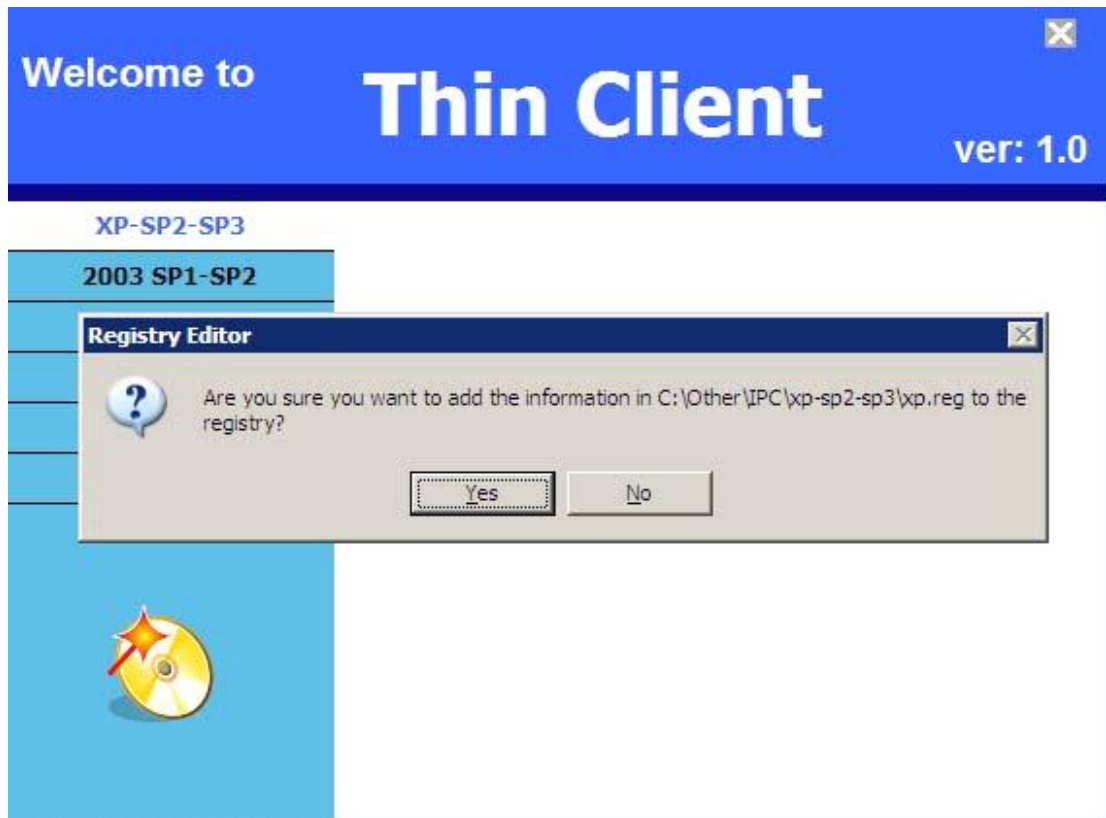
Simple Installation

4."RUN"

5. "YES" "OK"



5 "YES" "NO"



6 . "Simple Installation"

7 "Patch"

Welcome to

# Thin Client

ver: 1.0

XP-SP2-SP3

2003 SP1-SP2

2008 SP1-SP2

Windows 7

Vista

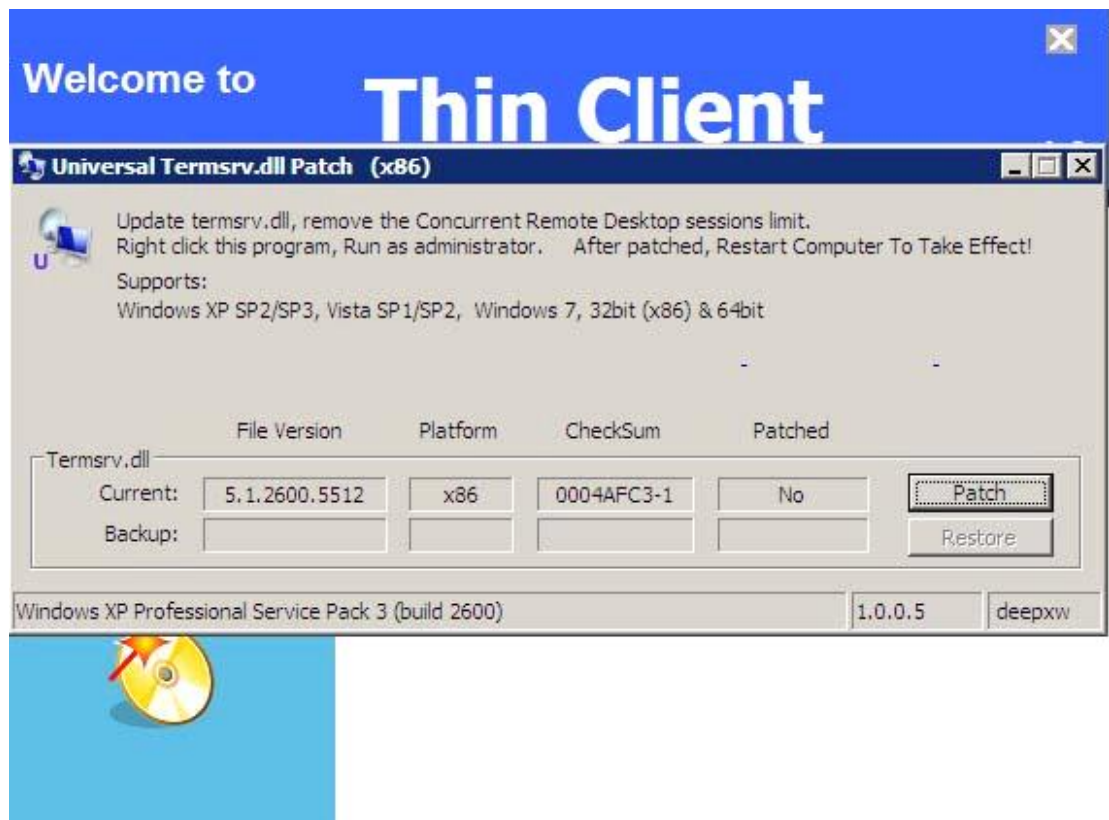
Exit



Register Compons

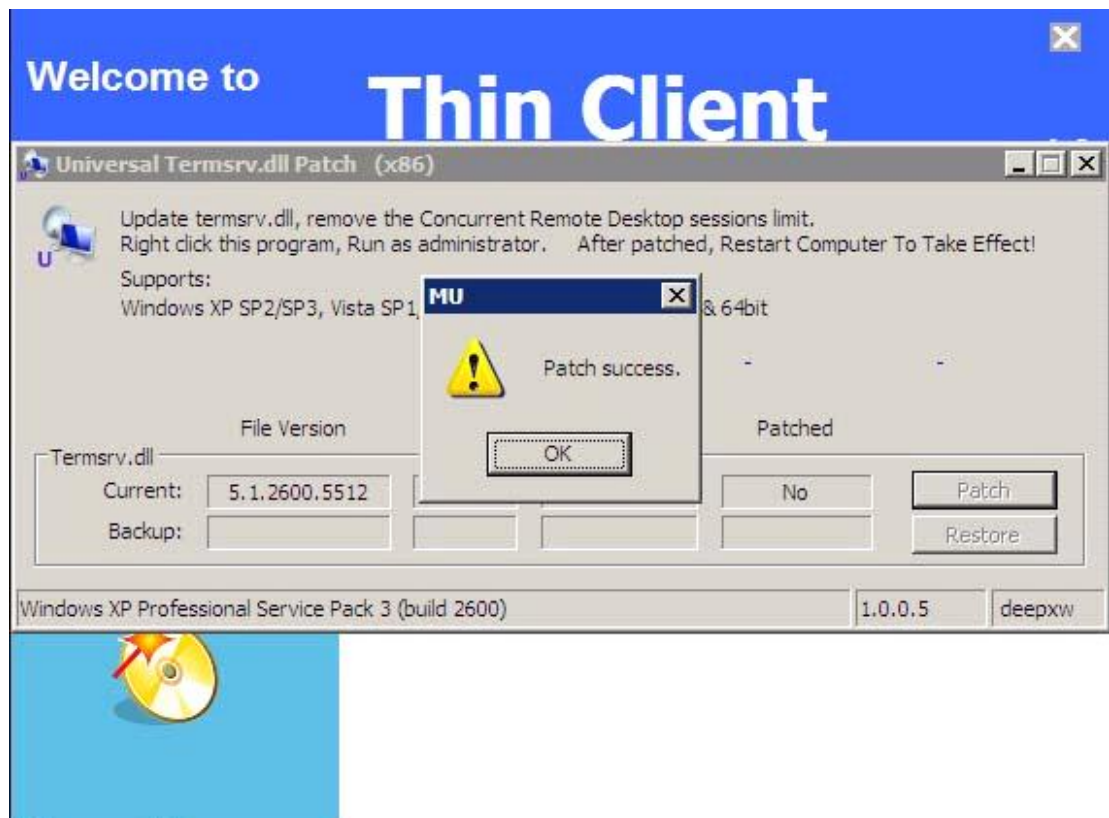
Simple Installation

7 "Data"

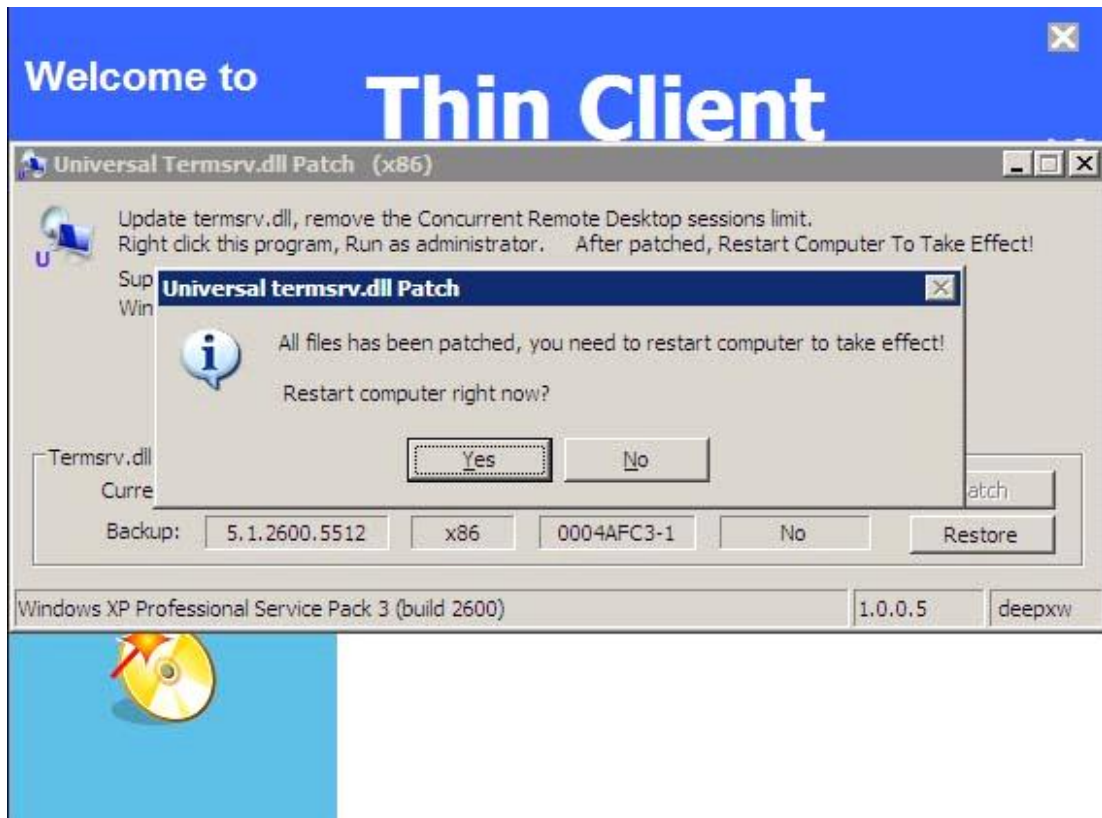


8 . "OK"

"Yes" and restart System



Click "Yes" and restart System



## 4.2 Configure with Linux

### XRDP connect with LINUX OS remotely

Usually we use ssh client to login in linux OS remotely, and vnc will be considered once linux remote-login tool is mentioned. But it has the insufficient security. Hereby we introduce how to install and configure XRDP.

How to install and configure XRDP

1、 If that is Debian Distro, set the resource first, and then apt-get install xrdp.

If RedHat Distro, you can download the package from here: <http://xrdp.sourceforge.net>

xrdp relies on pam and openssl-devel, it requests to install pam-devel and openssl-devel before Compile. (the name maybe a bit different if different Distro)

2、 To download xrdp package, and unzip it by tar-xwzf;

In the directory of that package has unzipped, to do MAKE by ROOT account, and then do MAKE INSTALL.

3、 Xrdp requests vncserver, so it needs to install vncserver first.

4、 After above steps is ready, there is Script (xrdp-control.sh) of directory



(Instfiles),user can start xrdp  
xrdp-control.sh start of this script,

User can add this script into /etc/rc.d/init.d/,let it run automatically when booting.

5、 Make sure xrdp is running,and connect with rdp client of server,it can use mstsc if windows server,and it can use rdesktop or krdp if linux server.

module choose sesman-Xvnc

6、 xrdp.ini and sesman.ini of directory /etc/xrdp,configuration documentation of xrdp

xrdp,ini keys at globals.

```
[globals]
bitmap_cache=yes
bitmap_compression=yes
port=3389
crypt_level=low
channel_code=1
sesman.ini
```

```
[Globals]
ListenAddress=127.0.0.1
ListenPort=3350
EnableUserWindowManager=1
UserWindowManager=startwm.sh
DefaultWindowManager=startwm.sh
```

```
[Security]
AllowRootLogin=1
MaxLoginRetry=4
TerminalServerUsers=tSUSErs
TerminalServerAdmins=tsadmins
```

```
[Sessions]
MaxSessions=10
KillDisconnected=0
IdleTimeLimit=0
DisconnectedTimeLimit=0
```

```
[Logging]
LogFile=./sesman.log
LogLevel=DEBUG
EnableSyslog=0
SyslogLevel=DEBUG
```

After installation,we can login in directly by runing mstsc of windows OS.

And, it requests to run rdesktop if linux OS.

## 5 **FAQ(Frequently Asked Questions)**

---

### **★What is RDP?**

Remote Display Protocol (RDP) is a proprietary protocol developed by Microsoft, which based on multi-user windows and provides a user with a graphical interface to another computer over a network connection. Mainly used to connect Windows 2003Server or Windows Server 2008 with a client service.

### **★Which video file can't be played?**

This product support RMVB, RM, AVI, MP4, MKV, FLV, and WMV main stream formats. Firstly check if the file formats is supported by this product or not, for those file formats cannot be supported by the product, it may can't be played; if supported file format can't be played, please use the computer play this file, if it still can't be played, maybe the file has been damaged.

### **★Flash device doesn't recognize.**

Please exit remote interface, back to Control Panel in Welcome page, view in the Peripherals and Set up , and confirm disable Flash device is not selected, if still doesn't recognize, please confirm whether the Flash device can be recognized on the computer or not.

### **★The LAN already connected, but the cloud computer welcome page can't refresh the server information.**

Please make sure cloud computer has installed authorized Shine Player, manual refresh identification, if still can't refresh out, please input “services.msc” on server start->run, open the service manager, check whether Terminal Service start or not, and please set this service on auto start.

### **★How to install player software?**

Please confirm the computer have installed dotNetFx Service, if not please install, please uncompressed the player software on the server any directory, then double-click setup.exe, start install, after that restart computer; it can use after boot, note: if the computer has installed 360antivirus software, please choose allowed to use.

### **★When the player installation appear code for 1001 wrong tip.**

Please input "cmd" on start->run, open the console, and input "sc delete Terminal Service", key Enter, exit console, and reinstall again.

### ★No sound on remote desktop mode

Please exit remote interface, back to control panel in welcome page, check whether mute are selected in display and voice or not. If the video is still no sound, please check whether the sound service is running in task manager or not, if running, then terminate the service and reopen.

### ★How to modify server port?

1. Open start->run , input "regedit", open the registry, go in the path

[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\TerminalServer\Wds\rdpwd\Tds\tcp]

Find out "Port Number", its default value is 3389, you can changed to which port you want, e.g 3380, Pay attention to use the decimal.

Turn it on again

2.[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\TerminalServer\WinStations\RDP-Tcp]

Find out "PortNumber", its default value is 3389, you can change to which port you want, such as 3380. Pay attention to use the decimal. If the Windows system is XP or 2003, just reboot system and use the port 3380 for remote desktop connection.

3.[In Vista or Win7, the Client is still unable access to remote desktop connection. Because the Vista or Win7 has own firewall. You also need to modify firewall policy through registration list.

Go in

[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\services\SharedAccess\Defaults\FirewallPolicy\FirewallRules], Find out "Remote Desktop-In-TCP", changed all of 3389 to 3380, and go in again

[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\services\SharedAccess\Parameters\FirewallPolicy\FirewallRules], Find out "Remote Desktop-In-TCP", changed all of 3389 to 3380 ,save and reboot computer will only take effect, then you can use the port 3380 for remote desktop connection in future.

### ★How to set up the display resolution for device?

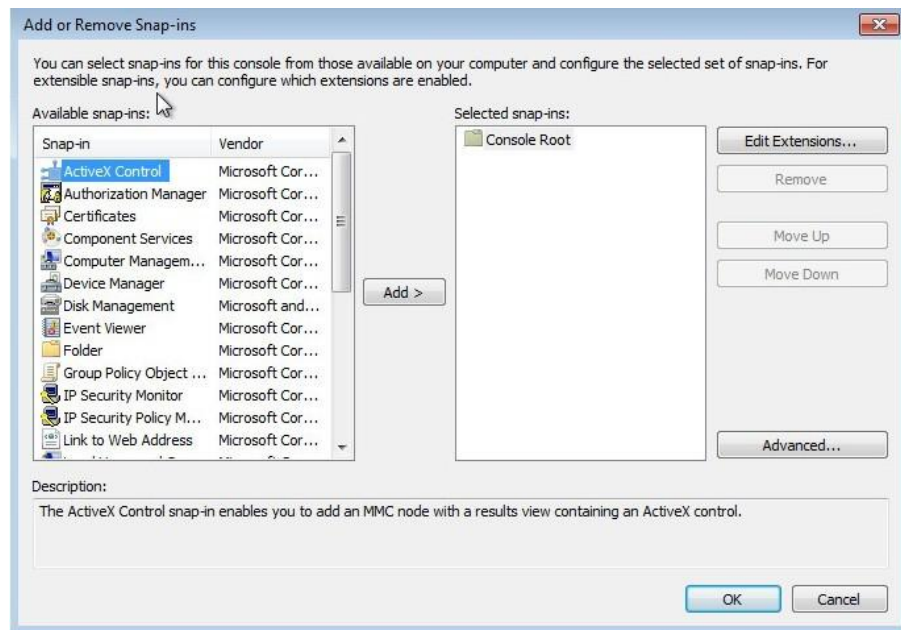
Please long press standby or restart button, after reboot the display resolution will be automatically reset to default 720P, interface is normal display.

Individual monitor cannot reach the best performance regardless of which resolution  
Open panel menu on display , select automatically adjust size.

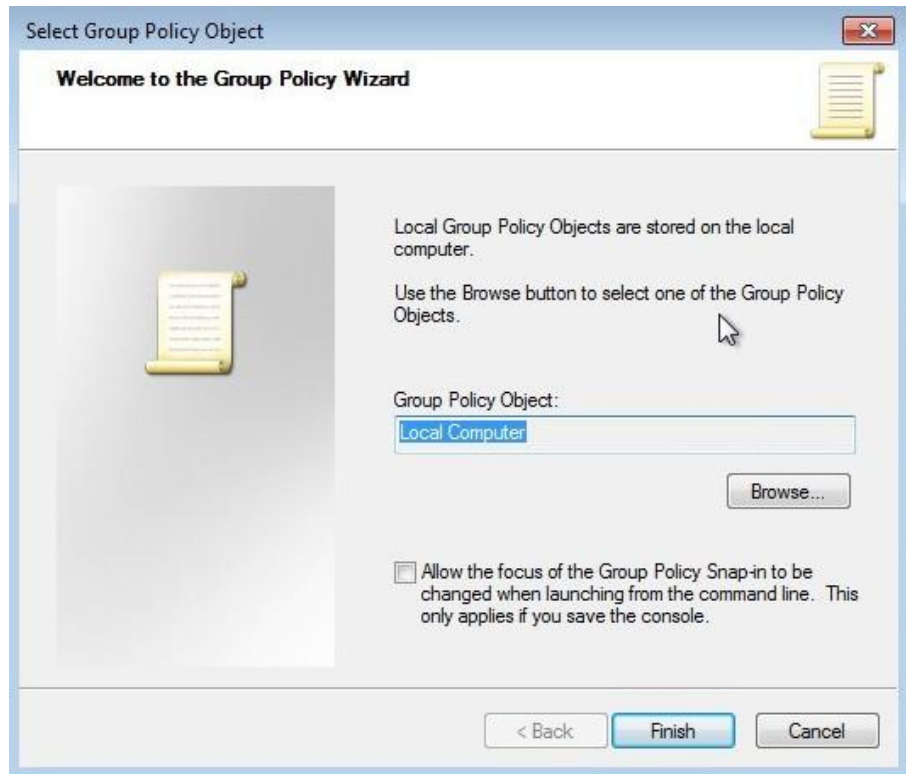
**★When the device choose 32-bit color, remote desktop icon display still fuzzy, you need to do the following settings on the server :**

When virtual machine operate system is Win7, enter into control panel -Appearance and Personalization-adjust resolution-sensor setting-monitor-color-true color(32 bit) save and then ok.

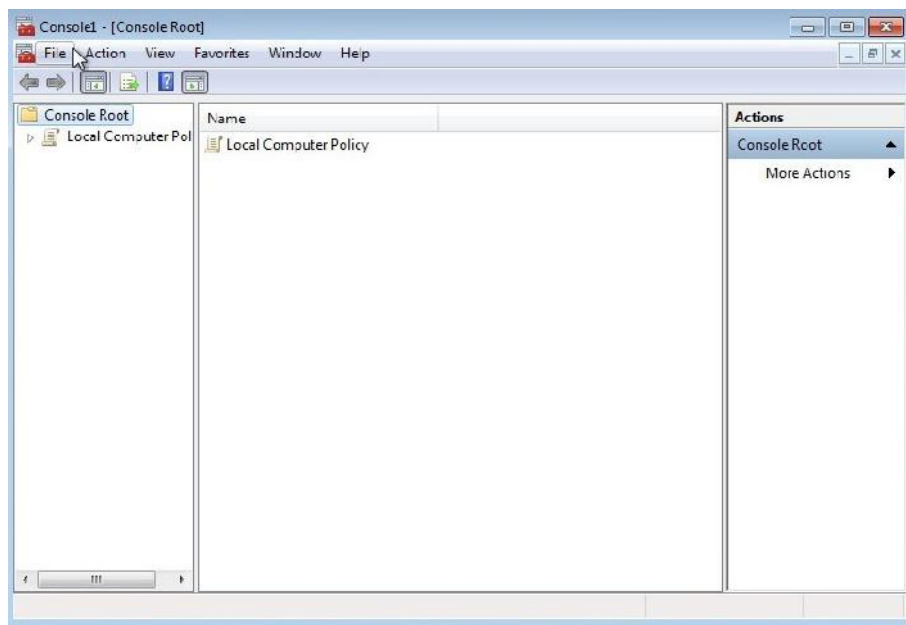
When virtual machine operating system is WIN XP, enter into virtual desktop, in the taskbar click "start" > "run", display operation window,input command"MMC" in operation window and click "ok".



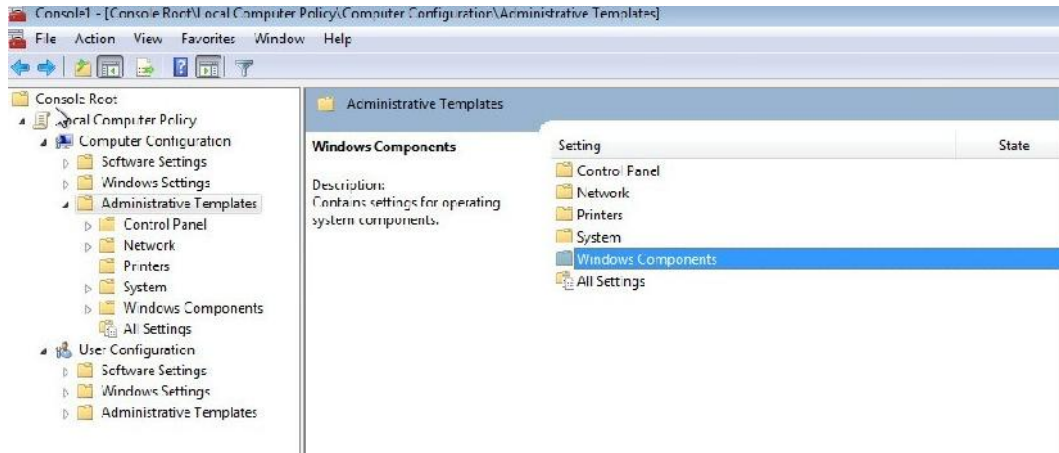
1.Click “add” and select “Standalone Snap-in” -“Group Policy Object Editor”.



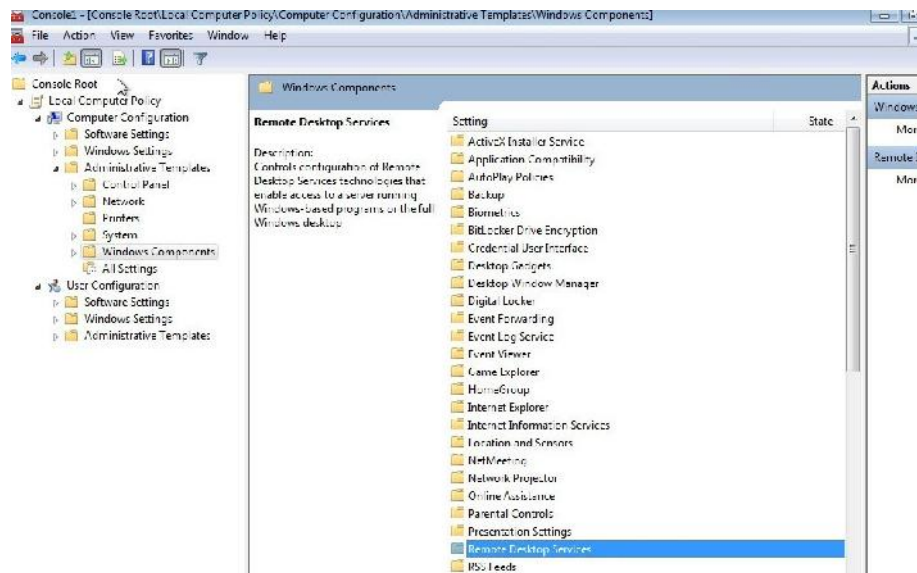
2. Click 'add', display window "Select Group Policy Object", click "finish".



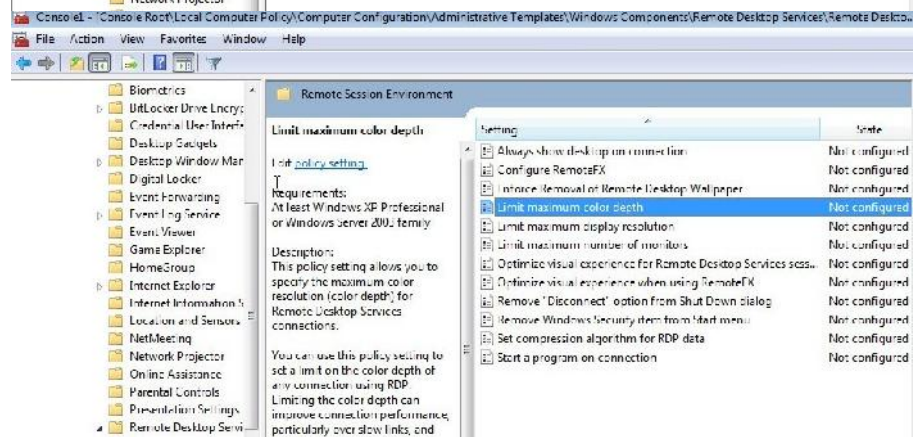
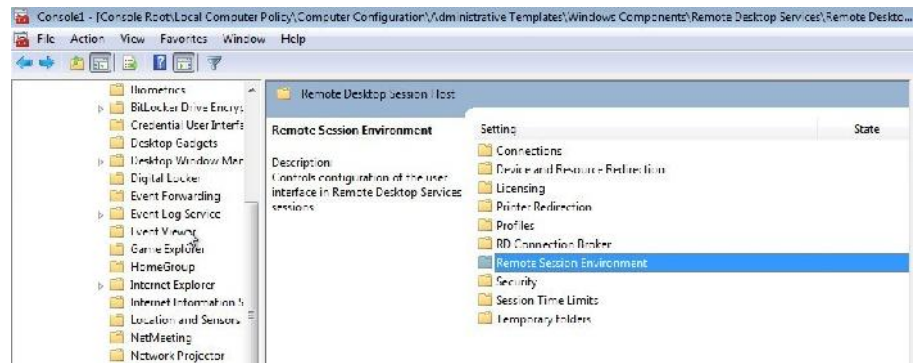
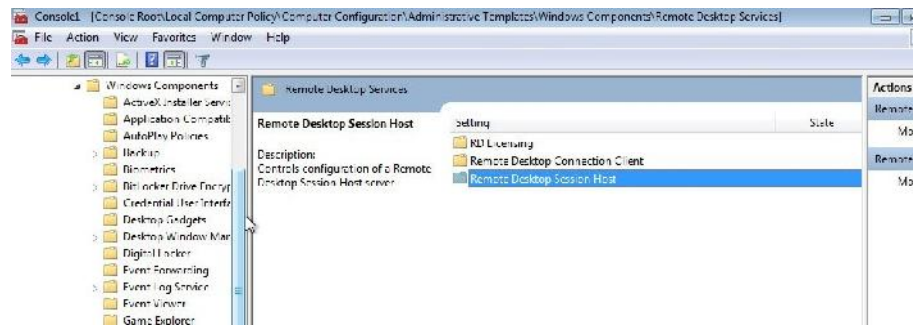
3. Add Group Policy Object successfully as shown



4. On left side "Local Computer Policy" choose "Computer Configuration>Administrative Templates>Windows Components>Terminal Services", as the picture:



5. double-click "maximum color depth limitation", display "maximum color depth limitation property" as picture shown, choose "24-bit", click confirm





Limit maximum color depth

Limit maximum color depth

Previous Setting Next Setting

☐ Not Configured Comment:

☒ Enabled

☐ Disabled

Supported on: At least Windows XP Professional or Windows Server 2003 family

Options:

Color Depth

Client Compatible

15 bit

16 bit

24 bit

32 bit

Help:

This policy setting allows you to specify the maximum color resolution (color depth) for Remote Desktop Services connections.

You can use this policy setting to set a limit on the color depth of any connection using RDP. Limiting the color depth can improve connection performance, particularly over slow links, and reduce server load.

If you enable this policy setting, the color depth that you specify is the maximum color depth allowed for a user's connection over RDP. The actual color depth for the connection is determined by the color support available on the client computer. If you select "Client Compatible," the highest color depth supported by the client will be used.

Note: A color depth of 24 bit is only supported on Windows XP Professional and Windows Server 2003.

If you disable or do not configure this policy setting, the color depth for connections is determined by the "Limit Maximum